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dock\$3 same (port near10 (media or medium or disk or disc))	209

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L1 dock\$3 same (port near10 (media or medium or disk or disc)) 209 L1

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dock\$3 same (port near10 (media or medium or disk or disc))	18

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END OF SEARCH HISTORY

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DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L2 dock\$3 same (port near10 (media or medium or disk or disc))

DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

L1 dock\$3 same (port near10 (media or medium or disk or disc))

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2	BRS	L2	4	(dock\$3 near5 (high adj1 speed)) and (por	USPA	2005/04/1	T	2 10:13			

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(dock\$3 near5 (high adj1 speed)) and (port near10
(media or medium or disk))

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1	<input type="checkbox"/>	US 6151646 A	20001121	378	System for resources under control of docking	710/72	710/38; 710/8
2	<input type="checkbox"/>	US 6023587 A	20000208	378	System for resources under control of docking	710/72	
3	<input type="checkbox"/>	US 5572442 A	19961105	17	System for distributing subscription and on-demand	709/219	455/3.04
4	<input type="checkbox"/>	US 5557541 A	19960917	16	Apparatus for distributing subscription	700/94	360/15; 709/219;

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IEEE CNF IEEE Conference Proceeding

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IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

1. **Topological representation and analysis method for multi-port and multi-orientation docking modular**

Ko, A.; Lau, T.L.; Lau, H.Y.K.;

Robotics and Automation, 2004. Proceedings. ICRA '04. 2004 IEEE International Conference on Volume 3, 26 April-1 May 2004 Page(s):2210 - 2215 Vol.3

[AbstractPlus](#) | Full Text: [PDF\(622 KB\)](#) [IEEE CNF](#)

2. **Manipulator system for module re docking on the Mir Orbital Complex**

Syromiatiukov, V.S.;

Robotics and Automation, 1992. Proceedings., 1992 IEEE International Conference on 12-14 May 1992 Page(s):913 - 918 vol.1

[AbstractPlus](#) | Full Text: [PDF\(380 KB\)](#) [IEEE CNF](#)

3. **Experimental study of airflow and particle characteristics of a 300-mm POUP/LPU minienvironment system**

Shih-Cheng Hu; Tzong-Ming Wu;

Semiconductor Manufacturing, IEEE Transactions on Volume 16, Issue 4, Nov. 2003 Page(s):660 - 667

[AbstractPlus](#) | References | Full Text: [PDF\(481 KB\)](#) [IEEE JNL](#)

4. **Innovative Tools for Management: Real-Time Oceanographic Measurements and Circulation Modeling**

Frey, H.;

OCEANS

Volume 19, Sep 1987 Page(s):1091 - 1096

[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) [IEEE CNF](#)

5. **A router architecture for real-time communication in multicomputer networks**

Rexford, J.; Hall, J.; Shin, K.G.;

Computers, IEEE Transactions on

Volume 47, Issue 10, Oct. 1998 Page(s):1088 - 1101

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Mehlberg, U.;

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[AbstractPlus](#) | Full Text: [PDF\(508 KB\)](#) [IEEE CNF](#)

7. **Professor Silicon and Professor Maestro-the perfect combination**

Crynes, B.L.; Hawley, J.A., III;

Frontiers in Education Conference, 1995. Proceedings., 1995

Volume 1, 1-4 Nov. 1995 Page(s):2a3.14 - 2a3.21 vol.1

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Ribeiro, M.I.; Lima, P.; Aparicio, P.; Ferreira, R.;
Fusion Engineering, 1997. 17th IEEE/NPSS Symposium
Volume 2, 6-10 Oct. 1997 Page(s):973 - 976 vol.2

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Joque, D.T.; Yang, F.L.; Demich, L.R.;
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Volume 2, 13-16 Sept. 1999 Page(s):848 - 861 vol.2

[AbstractPlus](#) | Full Text: [PDF\(1248 KB\)](#) IEEE CNF**10. The effects of regulating the use of TBT-based antifouling paints on TBT contamination**

Evans, S.M.; Smith, R.;
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Fishel, K.;
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Volume 11, Sep 1979 Page(s):681 - 684

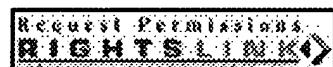
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A router architecture for real-time communication in multicommputer network

Rexford, J., Hall, J., Shin, K.G.

Network & Distributed Syst., AT&T Bell Labs., Florham Park, NJ, USA;

This paper appears in: **Computers, IEEE Transactions on**

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On page(s): 1088 - 1101

ISSN: 0018-9340

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Abstract

Parallel machines have the potential to satisfy the large computational demands of real-time applications. These applications require predictable communication network, where time-constrained traffic requires bounds on throughput and latency, while general traffic performance suffices for best-effort packets. This paper presents a new router architecture that tailors low-level routing, flow-control, and deadlock-avoidance policies to the conflicting demands of each traffic class. The router implements both deadline-based and deadline-based scheduling, with packet switching and table-driven multicast routing, to bound end-to-end delay and jitter for time-constrained traffic while allowing best-effort traffic to capitalize on the low-latency routing and switching schemes of parallel machines. To limit the cost of servicing time-constrained traffic, the router includes a novel packet scheduler that performs scheduling logic across the multiple output ports, while masking the effects of dock rollover on the representation of paths and deadlines. Using the Verilog hardware description language and the Epoch silicon compiler, we demonstrate that the router can meet the performance goals of both traffic classes in a single-chip solution. Verilog simulation experiments on a detailed timer show how the implementation and performance properties of the packet scheduler scale over a range of architectural parameters.

Index Terms

Inspec

Controlled Indexing
[multiprocessor interconnection networks](#) [packet switching](#) [parallel architectures](#) [performance evaluation](#) [systems](#)
Non-controlled Indexing
[Epoch silicon compiler](#) [Verilog hardware description language](#) [Verilog simulation](#) [architectural parameters](#) [requirements](#) [deadline-based scheduling](#) [end-to-end delay](#) [latency](#) [multicommputer networks](#) [packet switching](#) [parallel machines](#) [predictable communication network](#) [real-time applications](#) [real-time communication](#) [router architecture](#) [table-driven multicast routing](#) [throughput](#) [time-constrained traffic](#)
Author Keywords

Not Available

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On page(s): 1215- 1227, Volume: 49, Issue: 11, Nov 2000
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1. Document ID: EP 1341348 A1

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L2: Entry 1 of 18

File: EPAB

Sep 3, 2003

PUB-NO: EP001341348A1

DOCUMENT-IDENTIFIER: EP 1341348 A1

TITLE: Switch architecture independent of type of media

PUBN-DATE: September 3, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
KADAMBI, SHIRI	US
AMBE, SHEKHAR	US
RELAN, SANDEEP	IN

INT-CL (IPC): H04 L 12/44; H04 L 12/46

EUR-CL (EPC): H04L012/56; H04L029/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn Ds
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2. Document ID: EP 1235222 A2

L2: Entry 2 of 18

File: EPAB

Aug 28, 2002

PUB-NO: EP001235222A2

DOCUMENT-IDENTIFIER: EP 1235222 A2

TITLE: System for hard disk drive library

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn Ds
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3. Document ID: EP 836133 A2

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File: EPAB

Apr 15, 1998

PUB-NO: EP000836133A2

DOCUMENT-IDENTIFIER: EP 836133 A2

TITLE: Computer instrument docking apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn Ds
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4. Document ID: US 20040260843 A1

L2: Entry 4 of 18

File: DWPI

Dec 23, 2004

DERWENT-ACC-NO: 2005-073583

DERWENT-WEEK: 200508

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TITLE: Semiconductor package for use as bridge between computer and peripheral device card e.g. memory cards, has areas of attribute memory and bus decode logic, where internal bridging-device-bus interconnects memory, logic, and bus

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn](#)

5. Document ID: US 20040228622 A1

L2: Entry 5 of 18

File: DWPI

Nov 18, 2004

DERWENT-ACC-NO: 2005-029076

DERWENT-WEEK: 200503

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TITLE: Docking station for supporting video system, has port that connects media source e.g. MPEG player, to station, where data from source is provided to station via port and to video system via connector

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn](#)

6. Document ID: US 6767253 B1

L2: Entry 6 of 18

File: DWPI

Jul 27, 2004

DERWENT-ACC-NO: 2004-613013

DERWENT-WEEK: 200459

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TITLE: Media-content-receiving component docking system for use with set-top box, has docking base comprising multiple communication ports transmits media content to receiving device without using receiving component

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn](#)

7. Document ID: US 20040257919 A1, DE 20313001 U1

L2: Entry 7 of 18

File: DWPI

Dec 23, 2004

DERWENT-ACC-NO: 2004-170758

DERWENT-WEEK: 200504

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TITLE: Combination unit for computer systems has a compact disc drive and card readers built into a standard module that fits into a computer port

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn](#)

8. Document ID: EP 1341348 A1, US 20030163625 A1

L2: Entry 8 of 18

File: DWPI

Sep 3, 2003

DERWENT-ACC-NO: 2003-802080

DERWENT-WEEK: 200375

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TITLE: Network switch for communication system, includes master which handles and processes data received by media ports of different media type through high speed docking station

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMPC	Dra	De
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 9. Document ID: US 6558049 B1

L2: Entry 9 of 18

File: DWPI

May 6, 2003

DERWENT-ACC-NO: 2003-531324

DERWENT-WEEK: 200350

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TITLE: Video stream processing system for portable computer, has video multiplexer which converts multiple video streams received through video input terminals, into single multiplexed video stream for output to graphics controller

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMPC	Dra	De
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 10. Document ID: US 6672332 B2, US 20030075219 A1

L2: Entry 10 of 18

File: DWPI

Jan 6, 2004

DERWENT-ACC-NO: 2003-420788

DERWENT-WEEK: 200411

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TITLE: Adjustable vertical pressure regulator used in paint ball gun, has coil spring disposed for cooperating engagement with piston to bias piston and insert into opened state and control flow of pressurized gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMPC	Dra	De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
dock\$3 same (port near10 (media or medium or disk or disc))	18

Display Format: -

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L2: Entry 8 of 18

File: DWPI

Sep 3, 2003

DERWENT-ACC-NO: 2003-802080

DERWENT-WEEK: 200375

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TITLE: Network switch for communication system, includes master which handles and processes data received by media ports of different media type through high speed docking station

INVENTOR: AMBE, S; KADAMBI, S ; RELAN, S

PATENT-ASSIGNEE: BROADCOM CORP (BROAN)

PRIORITY-DATA: 2002US-0079576 (February 22, 2002)

[Search Selected](#)[Search All](#)[Clear](#)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1341348 A1</u>	September 3, 2003	E	000	H04L012/44
<u>US 20030163625 A1</u>	August 28, 2003		008	G06F013/00

DESIGNATED-STATES: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1341348A1	February 19, 2003	2003EP-0003744	
US20030163625A1	February 22, 2002	2002US-0079576	

INT-CL (IPC): G06 F 13/00; H04 L 12/44; H04 L 12/46

ABSTRACTED-PUB-NO: US20030163625A

BASIC-ABSTRACT:

NOVELTY - A master (101) receives data from multiple media ports (103) through high speed docking stations (102) and processes the data received from multiple media ports.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method of handling data in network switch.

USE - For handling data received from media ports of different media types in communication system.

ADVANTAGE - Provides maximum flexibility while handling data in network switch. The cost associated with the network switch is optimized.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of the network

switch.

master 101

high speed docking stations 102

media ports 103

packet lanes 104

ABSTRACTED-PUB-NO: US20030163625A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/2

DERWENT-CLASS: W01

EPI-CODES: W01-A03B; W01-A06E1; W01-A06G2; W01-A06G5A;

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L6: Entry 1 of 3

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030163625
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030163625 A1

TITLE: Switch architecture independent of media

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kadambi, Shiri	Los Altos Hill	CA	US	
Ambe, Shekhar	San Jose	CA	US	
Relan, Sandeep	Bangalore		IN	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Broadcom Corporation				02

APPL-NO: 10/ 079576 [PALM]
DATE FILED: February 22, 2002

INT-CL: [07] G06 F 13/00

US-CL-PUBLISHED: 710/303
US-CL-CURRENT: 710/303

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A network device for handling data and a method for handling data in a network device are disclosed. The network device includes at least one media port and at least one high speed docking station, communicating with the at least one media port. At least one master is provided in the network device, where the at least one master is connected to the at least one high speed docking station. The master is configured to handle and process data received by the at least one media port and passed to the master through the at least one high speed docking station. The network device is configured to handle media ports of different media types. Thus, the device can handle data received through different media ports that have different media types with the same master, making the network device easily configured to meet a customer's needs.

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US6151646A
United States Patent (19)

Watts et al.

(11) Patent Number: 6,151,646
(15) Date of Patent: Nov. 21, 2000

[54] SYSTEM FOR RESOURCES UNDER CONTROL OF DOCKING STATION WHEN STAND ALONE AND RESOURCES UNDER CONTROL OF CENTRAL PROCESSING UNIT OF PORTABLE COMPUTER WHEN DOCKED

5,568,137 10/1999 Robins 714/25
6,047,724 12/1999 Agnew et al. 364/500.21

(73) Inventor: LaVernia P. Watts, Temple, John C. Lim, Houston, both of Tex.

Primary Examiner—Thomas C. Lee
Assistant Examiner—Howard Kao
Attorney, Agent, or Firms—Richard O. Narrings, White, James, Brody, III, Frederick J. Tolocky, Jr.

(75) Assignee: Texas Instruments Incorporated, Dallas, Tex.

(37) ABSTRACT

(14) Noter: This patent is subject to a terminal disclaimer.

The described embodiment of the present invention provides a computer docking station (12, 32, 58, 68, 76, 84, 90, 92, 94, 96) that can have its functionality reconfigured by a docked portable personal computer (16, 36, 52, 66, 74, 82). In at least one embodiment of the invention, the computer docking station is configured as a stand alone computer prior to docking with a portable computer, may have its functionality reconfigured when docked to the portable computer, and reconfigured back to be a stand alone computer when undocked from the portable computer. In one embodiment of the invention, docking station resources are placed under the control of a docked portable computer. In another embodiment of the invention, docked portable computer resources are placed under the control of the docking station. The invention contemplates docking via direct connection, radio frequency "RF" communications, infrared "IR" communications, 1394 high performance serial bus connection, or card bus communications, and/or combinations of one or more of these communication techniques.

(11) Appl. No.: 09/304,539

(22) Filed: May 4, 1999

Related U.S. Application Data

(13) Continuation of application No. 08/637,665, May 2, 1996.

(15) Int. Cl.: G06F 9/00

(52) U.S. Cl.: 710/72; 710/38; 710/6

(56) Field of Search: 710/69, 71, 38,

710/9; 714/25; 364/400.01; 705.1, 280.2;

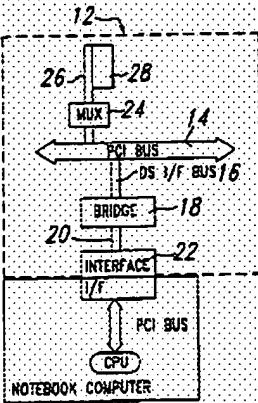
3,897

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4,861,903 8/1999 Ima et al. 710/69

12 Claims, 22 Drawing Sheets



US0357541A

United States Patent (b)

Schulhof et al.

(11) Patent Number: 5,557,541
(45) Date of Patent: Sep. 17, 1996

(24) APPARATUS FOR DISTRIBUTING SUBSCRIPTION AND ON-DEMAND AUDIO PROGRAMMING

(73) Inventor: Nathan Schulhof, Los Gatos; James M. Isley, Los Altos, both of Calif.
(73) Assignee: International Highway Media Corporation, Cupertino, Calif.

(21) Appl. No.: 779,248

(22) Filed: Jul. 21, 1994

(15) Int. Cl. 6 GLIB 2B/19

(22) U.S. Cl. 344/514 R; 344/7

(58) Field of Search 164/514 R; 344/7,
344/15, 13; 360/19.1, 15; 455/43; 370/59.1;
250/342

(56) References Cited

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4,433,451 6/1984 Bens... 310/104
4,783,673 11/1991 Jones et al. 310/102
5,055,358 11/1991 Weiss et al. 360/61
5,181,077 1/1993 Blasberg... 250/76
5,191,410 3/1993 McGehee et al. 335/80
5,202,870 4/1993 Koenig et al. 156/73
5,210,580 5/1993 Kohli... 310/102
5,402,336 4/1995 Bello et al. 344/71

OTHER PUBLICATIONS

Dekker, David et al., "Interactive Video On Demand", IEEE Communications Magazine, May 1994, pp. 32-33.
Jones, J. Michael, "Satellite and Passcar Transport Systems for Interactive Video Services", IEEE Communications Magazine, May 1994, pp. 30-31.
Chang, Yen-Hsing et al., "An Open System Approach to Video on Demand", IEEE Communications Magazine, May 1994, pp. 68-70.Primary Examiner—Enrique T. Vazquez
Assistant Examiner—Thomas Pecce
Attorney, Agent, or Firm—Michael A. Glass

(17) ABSTRACT

A distribution system for audio program materials includes a portable audio storage and retrieval device that is programmable from a high speed data transfer system, and that includes a high capacity data storage medium, a base control interface for identifying and accessing program material, a mobile control interface for displaying the identity of selected material for playback selection, a recording mechanism for accepting very high speed digital data from an external source at rates faster than real time, and a playback mechanism for retrieving the stored data from the storage medium and for converting the data into audio signals for playback.

6 Claims, 7 Drawing Sheets

